

ELECTRIC POWER UNIT FOR TWO-WHEEL VEHICLES

Abstract

An electric power unit for two-wheel vehicles comprising a batteries housing, from which current is supplied to a DC magnetic motor that is connected to a controller assembly, and a chain transmission driven by the DC magnetic motor, which is adapted to actuate a driven wheel of a two-wheel vehicle. The latter has a frame to which the electrical power unit for two-wheel vehicles is attached. The batteries housing incorporates a structure having two outwardly open compartments between which a hollow zone is interposed. Each of the two outwardly open compartments is divided in several partitions. Each of the several partitions is adaptable to receive one of several rechargeable batteries that are provided with terminals for contacting a wiring. Each of the two outwardly open compartments is provided with air channels air for heating the several rechargeable batteries. The DC magnetic motor with speed control comprises a stator including several alternating, equally spaced, permanent magnets that form a pair of parallel, concentric discs, a rotor including a central armature in a disc form, with two-loop windings and an even number of commutator segments. The commutator segments with odd ordinal numbers form first loop windings. The commutator segments with even ordinal numbers form second loop windings. Several brushes are disposed in a conventional holder that is concentrically affixed to the rotor. Half of the several brushes are used for starting the DC magnetic motor, while another half are used for regular functioning.